LESSON PLAN



The students will learn about

- transport of materials in living beings
- * mode of transport of materials in animals and plants

♦ circulatory system

♦ excretion in animals

♦ transport of substances in plants

TEACHING AIDS

Pictures/charts/models/animations on blood corpuscles in human blood, blood vessels, valves inside a vein, human heart, circulation of blood in human body; human excretory system, V.S. of skin; path of water and minerals in plants, structure of stomata.

LESSON PLAN

- ♦ Teacher will start the chapter by going through the points given in 'Know these points before you start' section.
- Now, teacher will discuss the transport of substances like nutrients, water and oxygen in living organisms from single-celled organisms to complex multicellular animals and plants.
- Teacher will discuss the modes of transport of materials, i.e., circulatory system in animals and vascular system in plants.
- ♦ Now, teacher will explain circulatory system, its parts, functions and working in humans.
- ♦ Teacher will ask students to solve Check Points 1 and 2.
- ♦ Now, teacher will discuss excretion in animals and types of body wastes.
- ♦ Teacher will explain excretory system and its parts in human beings.
- ♦ Teacher will also discuss other organs of excretion in human body.
- ♦ Teacher will ask students to solve Check Point 3.
- ♦ Now, teacher will discuss transport of water, minerals and food in plants.

- ♦ Teacher should explain the process of transpiration in plants by demonstrating related activities given in the chapter.
- ♦ Teacher will ask students to solve Check Point 4.
- ♦ Teacher will make students revise the new terms given under the head 'Know These Terms'.
- Finally, teacher will help students to solve the questions given in exercises under the head 'Practice Time' and 'Think Zone'.

BOOST UP

- ♦ Teacher should demonstrate and explain activities given in the chapter.
- ♦ Teacher should discuss the information given under the head 'Something More'.
- ✤ Teacher should discuss the conversation of Annu and Mannu given in between the topics.
- ♦ Teacher should discuss the facts given in the table.
- Teacher should encourage students to watch Discovery, National Geographic and Animal Planet channels to know more about plants and animals.
- ♦ Teacher should encourage students to observe the effects of transpiration in nature.

EXPECTED LEARNING OUTCOMES

The students know about

- ♦ transport of materials and modes of transport in living organisms.
- ♦ circulatory system and excretory system in human beings.
- ♦ transport of food, water and minerals in plants.
- ♦ transpiration and its importance

EVALUATIVE QUESTIONS

The teacher may ask the following questions for evaluating the understanding of students.

- **1.** What is meant by circulatory system?
- 2. Mention few functions of blood.
- 3. What is the difference between RBCs and WBCs?
- 4. Where is heart located?
- 5. Where are kidneys present?
- 6. Write two functions of vascular system in plants.